

WHAT IS CLAIMED IS:

1. A handheld electronic device having a shiftable pivot structure for joining a flip cover and a base of the device together, wherein the base comprises a pivotal accommodation groove and the cover comprises a pivot sleeve, the shiftable pivot structure comprising:
 - 5 a sliding axle fitting in the pivotal accommodation groove, wherein the sliding axle comprises a lever and a pivot sleeve, two ends of the lever are respectively located on interior sidewalls of the pivotal accommodation groove, the pivot sleeve of the sliding axle extends from the lever to be hinged with the pivot sleeve of the cover at a connection point,

10 the connection point being movable between positions inside and outside the pivotal accommodation groove, at the position outside the pivotal accommodation groove, the flip cover being pivotable relative to the base.

15 2. The handheld electronic device of claim 1, wherein the pivot sleeve of the sliding axle is hinged to the pivot sleeve of the cover by a shaft that extends in the two pivot sleeves.

3. The handheld electronic device of claim 2, wherein the flip cover is provided with a display and the base is provided with a keypad.

20 4. The handheld electronic device of claim 3, wherein the pivotal accommodation groove extends through an end of the base to form an opening in the base, and the connection point is moved from the position inside the pivotal accommodation groove to the position outside the pivotal accommodation groove through the opening.

5. The handheld electronic device of claim 1, wherein the pivotal accommodation groove extends through an end of the base to define an opening in the base, and wherein

when the connection point moves from the position inside the pivotal accommodation groove to the position outside the pivotal accommodation groove, the connection point moves through the opening.

6. A handheld electronic device, comprising:

- 5 a base having a keypad thereon;
- a cover having a display thereon;
- a shiftable pivot structure slideably mounted in the base and pivotably connecting with the cover at a pivotal connection point.

10 7. The handheld electronic device of claim 6, wherein the base defines a pivotal accommodation groove receiving the shiftable pivot structure therein.

8. The handheld electronic device of claim 7, wherein the pivotal accommodation groove extends through an end of the base to define an opening therein.

15 9. The handheld electronic device of claim 8, wherein the pivotal connection point between the shiftable pivot structure and the cover is movable between a first position in which the pivotal connection point is located inside the pivotal accommodation groove and a second position in which the pivotal connection point is located outside the pivotal accommodation groove.

10. The handheld electronic device of claim 9, wherein the pivotal connection point is moved from the first position to the second position groove through the opening.

20 11. The handheld electronic device of claim 10, wherein when the pivotal connection point is located at the second position, the cover is pivotal relative to the base.

12. The handheld electronic device of claim 11, wherein the cover has a first pivot sleeve and the shiftable pivot structure has a second pivot sleeve, a shaft extending in the

first and second pivot sleeves to pivotably connect the cover and the shiftable pivot structure together.

13. The handheld electronic device of claim 12, wherein the shiftable pivot structure has a U-shaped configuration.

5 14. A handheld electronic device, comprising:

a base comprising a numerical keypad for inputting data and a pivotal accommodation groove located at one end of the base;

a shiftable pivot structure fitted in the pivotal accommodation groove and being shiftable from a first position to a second position, wherein the shiftable pivot structure comprises a first pivot joint located entirely within the pivotal accommodation groove when the shiftable pivot structure is shifted to the first position, and located outside the pivotal accommodation groove when the shiftable pivot structure is shifted to the second position; and

15 a flip cover comprising a display screen for displaying data, and a second pivot joint that is pivotably joined to the first pivot joint.

15. The handheld electronic device of claim 14, wherein the first pivot joint comprises two first pivot sleeves and a shaft, the second pivot joint comprises a second pivot sleeve, and the shaft extends in the first pivot sleeves and the second pivot sleeve.

20 16. The handheld electronic device of claim 14, wherein the flip cover is pivotable relative to the base when the shiftable pivot structure is shifted to the second position.

17. The handheld electronic device of claim 15, wherein the flip cover is pivotable relative to the base when the shiftable pivot structure is shifted to the second position.

18. A method of using a handheld wireless communication device which has a base and a cover, the base having a keypad thereon and the cover having a display thereon, a shiftable pivot structure slideably mounted in the base between first and second positions and pivotably connecting with the cover at a pivotal connecting point, wherein when the
5 shiftable pivot structure is at the first position, the pivotal connecting point is located in the base and when the shiftable pivot structure is at the second position, the pivotal connecting point is located outside the base, the method comprising:
- (a) moving the shiftable pivot structure from the first position to the second position when then cover is closed to the base; and
- 10 (b) pivoting the cover about the pivotal connecting point in a direction that the cover is away from the base to thereby open the cover to a position that the handheld wireless communication device can be operated.
19. The method of claim 18 further comprising the following steps after step (b):
- (c) pivoting the cover about the pivotal connecting point in a direction that the cover
15 is toward the base to thereby close the cover; and
- (d) moving the shiftable pivot structure from the second position to the first position.
20. The method of claim 19, wherein the cover comprises a first pivot sleeve and the shiftable pivot structure comprises a second pivot sleeve, a shaft extending in the first and
20 second pivot sleeves to pivotably connect the cover and the shiftable pivot structure together.
21. The method of claim 20, wherein the shiftable pivot structure has a U-shaped configuration.